


State of Florida Data Center Consolidation Feasibility Study

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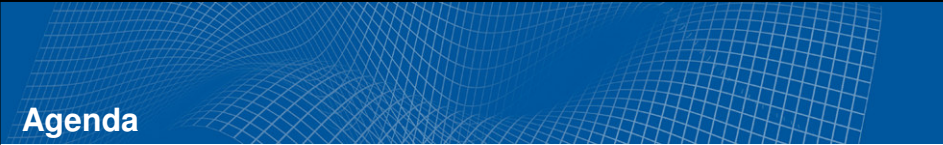

Data Gathering Kickoff

15 January 2008




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Agenda

- **Project Objectives**
- **Conceptual Approach**
- **Start with Data Gathering**
- **Data Gathering Process**
- **Support Resources Available**
- **Guidelines**
- **Detailed Review of Worksheets**
 - Cost Survey
 - Survey Workbook Layout
 - Agency Instructions
 - Computing Facility Instructions
 - Detailed Review
 - Operations Survey
 - Survey Workbook Layout
 - Agency Instructions
 - Computing Facility Instructions
 - Detailed Review
- **Next Steps**



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Project Objectives

- **Develop a baseline assessment of the State's largest data centers which includes:**
 - Quality, capacity and utilization of facilities,
 - Workloads and staffing levels in each data center
 - Expected workload growth rates
 - Challenges to consolidation
- **Estimate the benefits that the State can expect to achieve from consolidating the largest data centers and the challenges to achieve these benefits.**
 - Credible and defensible net financial savings associated with each consolidated scenario when compared to an unconsolidated status quo
 - Qualitative benefits (lower risk, strengthened IT infrastructure, better services & etc.) and risks associated with executing a consolidation vs. status quo data center strategy
 - Challenges identified and qualified
- **Identify technical, business and operational risks associated with continuing with the Status Quo and with executing a consolidation data center strategy.**
- **Provide the information in time for it to be considered during the spring legislative session.**
 - Interim report outlining order of magnitude savings by February 15, 2008
 - Final Report by March 17, 2008



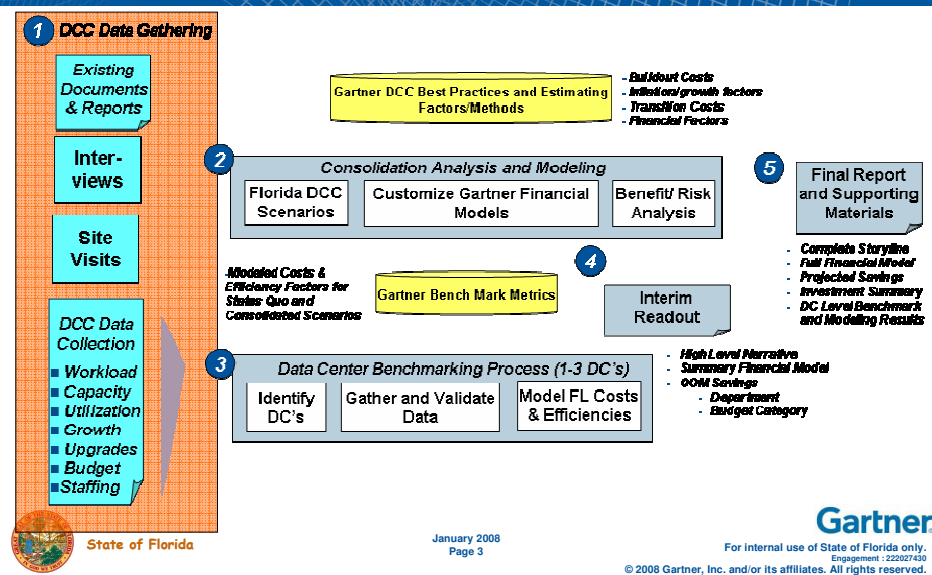
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Gartner Conceptual Approach (Diagram)



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The Plan Starts with Data Collection

- **Focused On Computing Facilities (Cost & Operations)**
- **Leverages Existing Data Collection Vehicles**
 - Gartner Benchmarking Surveys/Models
 - Gartner Data Center Consolidation Surveys/Models
- **Short Duration To Support Aggressive Delivery Schedule**
 - 1/5 – 1/11 Survey Tailoring
 - 1/15 – 1/17 Agency Training
 - 1/15 – 2/1 Survey Forms Completion By Agencies
 - 1/15 – 1/31 Assistance To Agencies By Gartner
 - 2/1 Data Collection Complete
 - 1/22 – 2/8 Data Validation And Aggregation Activities
- **Interim report 2/15**
- **Final Report 3/17**



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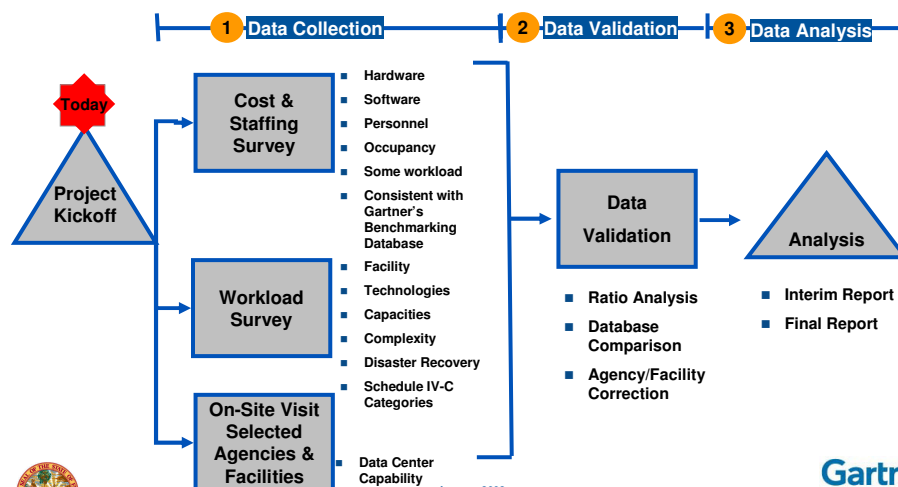
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Data Gathering Process

Data Gathering consists of 3 parts



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Data Center Visits

Facilities To Be Visited

AGENCY	FACILITY LOCATION
DCF – DISTRICT 11	ROHDE BUILDING 401 NORTHWEST 2 ND AVE. MIAMI, FL 33128
DCF – DISTRICT HQ	NORTHWOOD CENTER 1940 NORTH MONROE STREET TALLAHASSEE, FL 32303
DEP	TWIN TOWERS LAB 2600 BLAIR STONE ROAD TALLAHASSEE, FL
DEP	ANNEX BUILDING 3900 COMMONWEALTH BLVD TALLAHASSEE, FL
DFS	FLETCHER BUILDING 101 EAST GAINES STREET TALLAHASSEE, FL
DFS	FLETCHER BUILDING 101 EAST GAINES STREET TALLAHASSEE, FL
DFS	LARSON BUILDING 200 EAST GAINES STREET TALLAHASSEE, FL
DFS	TECHNOLOGY RESOURCE CENTER
DMS	
AGENCY	FACILITY LOCATION
DACS	Mayo Building Data Center

AGENCY	FACILITY LOCATION
DOC (DC)	CENTRAL OFFICE 2601 BLAIR STONE ROAD TALLAHASSEE, FL
DOE	TURLINGTON BUILDING 325 WEST GAINES STREET SUITE B2 – 24 TALLAHASSEE, FL 32333
DOR	CARLTON BUILDING 501 SOUTH CALHOUN STREET TALLAHASSEE, FL Taxworld Bldg L 5050 West Tennessee St Tallahassee, FL
DOS	DOS – Central Computing Facility 411 BLOXHAM STREET TALLAHASSEE, FL
DOT	BURNS BUILDING 605 SUWANNEE STREET TALLAHASSEE, FL
DOT	BOCA DATA CENTER/SUNPASS OPERATIONS GLADES FACILITY BOCA RATON, FL
FDLE	2331 PHILLIPS ROAD TALLAHASSEE, FL
HSMV	NEIL KIRKMAN BUILDING 2900 APALACHEE PARKWAY TALLAHASSEE, FL



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On-Site Visitation

- Sign up will begin at the kickoff meeting
- It is first come first serve (except DOT Boca Raton)
- Sign up now or via e-mail

Date:	Time:	Activity:	Resources:	Time:	Activity:	Resources:	Time:	Activity:	Resources:
Monday, 1/14/08									
Tuesday, 1/15/08									
Wednesday, 1/16/08	8:00 - 10:00	Site Visit - Open	Kirk/Sree	10:30 - 12:30	Site Visit - Open	Kirk/Sree	1:30 - 5:30	Site Visit - Open	Kirk/Sree
Thursday, 1/17/08	8:00 - 10:00	Site Visit - Open	Steve/Sree						
Friday, 1/18/08	8:00 - 10:00	Site Visit - Open	Steve/Sree						
Saturday									
Sunday									
Monday, 1/21/08 (MLK)									
Tuesday, 1/22/08	8:00 - 10:00	Site Visit - Open	Kirk/Sree	10:30 - 12:30	Site Visit - Open	Kirk/Sree	1:30 - 5:30	Site Visit - Open	Kirk/Sree
Wednesday, 1/23/08	8:00 - 10:00	Site Visit - Open	Kirk/Sree	10:30 - 12:30	Site Visit - Open	Kirk/Sree	1:30 - 5:30	Site Visit - Open	Kirk/Sree
Thursday, 1/24/08	8:00 - 10:00	Site Visit - Open	Kirk/Constance	10:30 - 12:30	Site Visit - Open	Kirk/Constance	1:30 - 5:30	Site Visit - Open	Kirk/Constance
Friday, 1/25/08	8:00 - 10:00	Site Visit - Open	Kirk/Constance	10:30 - 12:30	Site Visit - Open	Kirk/Constance	1:30 - 5:30	Site Visit - Open	Kirk/Constance
Saturday									
Sunday									
Monday, 1/28/08	8:00 - 10:00			10:30 - 12:30			1:30 - 5:30	Site Visit - Open	Kirk/Sree
Tuesday, 1/29/08	8:00 - 10:00			10:30 - 12:30			1:30 - 5:30	Site Visit - Open	Kirk/Sree
Wednesday, 1/30/08	8:00 - 10:00	Site Visit - Open	Kirk/Sree	10:30 - 12:30	Site Visit - Open	Kirk/Sree	1:30 - 5:30	Site Visit - Open	Kirk/Sree
Thursday, 1/31/08	8:00 - 10:00	Site Visit - Open	Kirk/Sree	10:30 - 12:30	Site Visit - Open	Kirk/Sree	1:30 - 5:30	Site Visit - Open	Kirk/Sree
Friday, 2/1/08									
Saturday									
Sunday									



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Data Gathering Guidelines

- Gartner is collecting data by Agency & Computer Facility. Each agency should distribute a survey worksheet to an appropriate computer facility
- A valid computer facility has more than 10 servers or more than 250 Sq. ft. of floor space
- Agencies at a Shared Resource Center (SRC) should complete a cost & staffing survey and a workload survey for their portion of the SRC
 - The facilities & occupancy portions should be completed by the SRC staff
- All data is ANNUAL – using FY 2007-08 actual plus planned expenditures
 - Hardware Costs are reported as Expense, Lease,, and Maintenance for four years
 - Assets added or retired over the study period should be reported as the actual expense
- Personnel includes Employees, OPS and Contractors
- Allocation of aggregate figures will be necessary – basis will vary
- “Best information within the time allotted”
- Accuracy sought is +/- 5% - not an accounting exercise
- Save the details
- Document the assumptions, basis for allocations



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Support Resources Available

- **Survey Support**
 - Gartner provided explain text for survey questions to help clarify the intent of the questions
 - Please leave a voice mail on the support line 850.921.1978 or send e-mail to trwuser@laspbs.state.fl.us in case of additional questions/clarifications
 - Please communicate your contact information
 - Gartner will respond within one/two business days
 - Gartner Support Contacts:
 - Cost Survey - Terry Lawnicki & Serge Rampezzotti
 - Workload Survey - Sree Chadalavada
- **Escalation**
 - Gartner – Steve Bibee & Frank Petrus
 - Senate Coordinator – Eliza Hawkins



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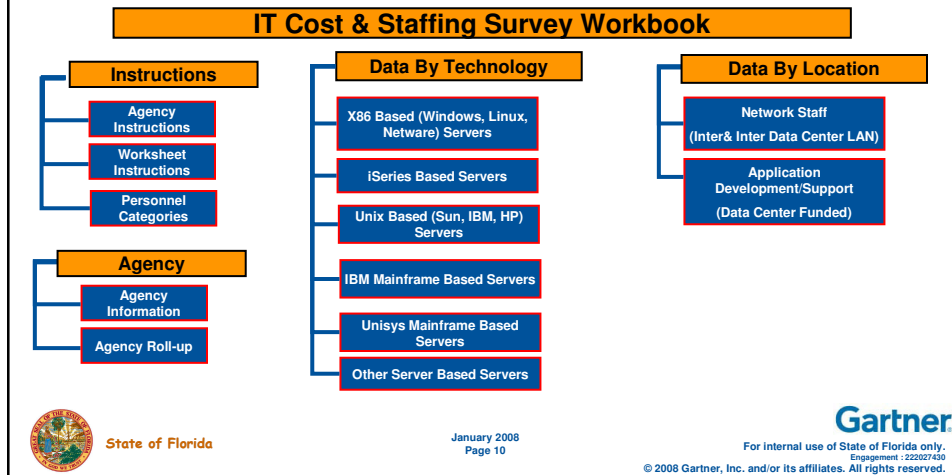
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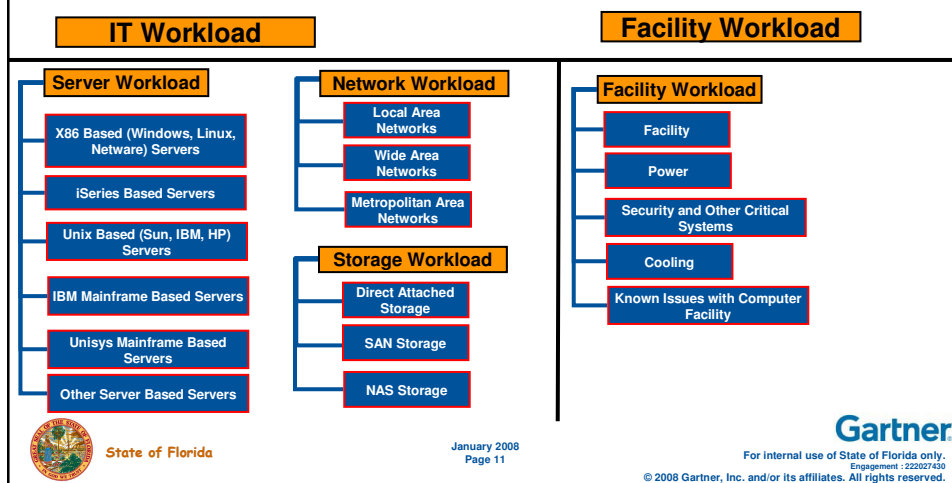
Cost & Staffing Survey Categories

The key Cost and Staffing Survey categories are:



Workload Survey Categories

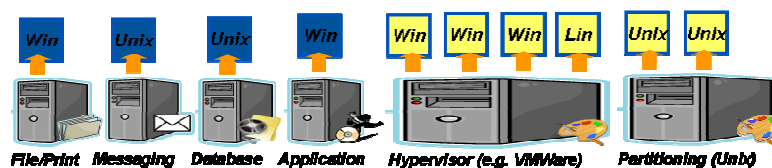
The key Workload Survey Categories are:



Key Concepts

■ Physical vs. Logical Servers

- Physical server equates to a physical box
- Logical server equates to an instance of the operating system
- If you are not doing “virtualization”, then logical servers = physical servers
- Why do we care?
 - Physical servers drive power and space requirements in the data centers
 - Logical servers drive the number of FTE's required for support



- 6 - Physical Servers (boxes)
- 10 - Logical Servers (yellow and blue squares)
- 6 - Logical Servers Running on a Virtualization Host
- 2 - Virtualization Hosts (boxes marked with paint pallets)



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